

Title (en)  
FAN BLADE AND FASTENING MEANS THEREFOR

Title (de)  
VENTILATORSCHAUFEL UND BEFESTIGUNGSMITTEL DAFÜR

Title (fr)  
PALE DE VENTILATEUR ET MOYENS DE FIXATION CORRESPONDANTS

Publication  
**EP 2401506 B1 20200422 (DE)**

Application  
**EP 10706538 A 20100226**

Priority  
• EP 2010001186 W 20100226  
• DE 102009010748 A 20090226

Abstract (en)  
[origin: WO2010097225A1] In order to provide fastening means (3) for fastening a blade section (2) of a fan blade (1), in particular of a smoke removal fan, to a fan hub, and a fan blade (1), which ensure high tensile strength even at high temperatures, wherein the fastening means (3) and fan blades (1) are to be manufactured in the most weight-saving manner possible, it is proposed that the fastening means (3) have a connection section (5), which is designed to establish a connection having high tensile strength to a blade section (2) and a fan blade (1) and can be arranged substantially in the interior of the blade section (2).

IPC 8 full level  
**F04D 29/02** (2006.01); **F04D 29/38** (2006.01); **F04D 29/64** (2006.01)

CPC (source: CN EP KR US)  
**F04D 29/023** (2013.01 - CN EP KR US); **F04D 29/322** (2013.01 - KR); **F04D 29/34** (2013.01 - CN KR); **F04D 29/38** (2013.01 - KR); **F04D 29/388** (2013.01 - CN EP KR US); **F04D 29/64** (2013.01 - KR US); **F04D 29/646** (2013.01 - KR); **F05D 2230/64** (2013.01 - EP US); **F05D 2300/171** (2013.01 - CN EP US)

Designated contracting state (EPC)  
AT BE BG CH CY CZ DE DK EE ES FI FR GB GR HR HU IE IS IT LI LT LU LV MC MK MT NL NO PL PT RO SE SI SK SM TR

DOCDB simple family (publication)  
**DE 102009010748 A1 20100902**; AU 2010219156 A1 20111020; AU 2010219156 B2 20150122; CN 102333960 A 20120125; CN 105889120 A 20160824; DK 2401506 T3 20200727; EP 2401506 A1 20120104; EP 2401506 B1 20200422; ES 2787232 T3 20201015; KR 101820828 B1 20180122; KR 20110126715 A 20111123; US 2011311365 A1 20111222; US 2014377074 A1 20141225; US 8827652 B2 20140909; US 9856888 B2 20180102; WO 2010097225 A1 20100902

DOCDB simple family (application)  
**DE 102009010748 A 20090226**; AU 2010219156 A 20100226; CN 201080009131 A 20100226; CN 201610216981 A 20100226; DK 10706538 T 20100226; EP 10706538 A 20100226; EP 2010001186 W 20100226; ES 10706538 T 20100226; KR 20117022070 A 20100226; US 201013203629 A 20100226; US 201414481053 A 20140909